

Message

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**From:** Strynar, Mark [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=5A9910D5B38E471497BD875FD329A20A-STRYNAR, MARK]  
**Sent:** 9/16/2019 2:33:19 PM  
**To:** Allenbach, Becky [Allenbach.Beky@epa.gov]  
**Subject:** RE: volatile PFAS structures poster  
**Attachments:** PFAS Cape Fear River.pptx

Sure here is the other water associated poster.

Mark

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**From:** Allenbach, Becky <Allenbach.Beky@epa.gov>  
**Sent:** Monday, September 16, 2019 9:59 AM  
**To:** Strynar, Mark <Strynar.Mark@epa.gov>  
**Subject:** RE: volatile PFAS structures poster

Mark, would you also resend the other poster please?

Becky B. Allenbach, Deputy Director  
Water Protection Division  
EPA Region 4  
Office 404-562-9687  
Cell Ex. 6 Personal Privacy (PP)

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**From:** Strynar, Mark <Strynar.Mark@epa.gov>  
**Sent:** Monday, September 16, 2019 9:57 AM  
**To:** D'Ambro, Emma <dambro.emma@epa.gov>; Murphy, Benjamin <Murphy.Benjamin@epa.gov>; Ryan, Jeff <Ryan.Jeff@epa.gov>; Offenberg, John <Offenberg.John@epa.gov>; McCord, James <mccord.james@epa.gov>; Yeung, Nelson <Yeung.Nelson@epa.gov>  
**Cc:** Lindstrom, Andrew <Lindstrom.Andrew@epa.gov>; Buckley, Timothy <Buckley.Timothy@epa.gov>; Gillespie, Andrew <Gillespie.Andrew@epa.gov>; Risen, Amy J <Amy.Risen@ncdenr.gov>; Michael Pjetraj <michael.pjetraj@ncdenr.gov>; Gary Saunders <gary.saunders@ncdenr.gov>; michael.abraczinskas@ncdenr.gov; Kemker, Carol <Kemker.Carol@epa.gov>; Allenbach, Becky <Allenbach.Beky@epa.gov>; Medina-Vera, Myriam <Medina-Vera.Myriam@epa.gov>  
**Subject:** volatile PFAS structures poster

All,

Much like we did for the non-volatile PFAS found in Cape Fear River water we made a poster of names, structures, CAS# and DTXSID links to the EPA Chemistry dashboard. A handful do not have DTXSIDs as they are not in the Chemistry dashboard. I am going to send them to Tony Williams to add. When I get them added I will send a new poster.

Gleaning from the D'Ambro et al., gap analysis paper and structures and names we know I put together with the help of Nelson and James. Many of these (acyl fluorides and sulfonyl fluorides) will transform to acids upon contact with water. Some of the compounds (vinyl ethers and "E" compounds) were on the previous poster I made (PFAS associated with the Cape Fear River v.1.0). I tried to group them according to functional group but this is impossible as some fit into more than one category (acyl fluoride and methyl ester for example) at the same time.

Most of the names given were gleaned from documents from Dupont/Chemours past reporting documents.

If you note anything we got wrong please let us know and we can correct it or add it.

Thanks,  
Mark

Dr. Mark J. Strynar  
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